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(54) Title: CARTILAGE REPAIR MIXTURE CONTAINING ALLOGRAFT CHONDROCYTES

(57) Abstract: The invention is directed toward a sterile cartilage defect implant material comprising milled lyophilized allograft cartilage pieces ranging from 0.01 mm to 1.0 mm in size in a bioabsorbable carrier taken from a group consisting of sodium hyaluronic acid and its derivatives, gelatin, collagen, chitosan, alginate, buffered PBS, Dextran or mixed polymers with allograft chondrocytes added in an amount ranging from 2.5×10^5 to 2.5×10^7 .



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/08798

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61F 2/00(2006.01)

USPC: 424/423

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/423

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,786,217 A (TUBO et al.) 28 July 1998 (28.07.1998), Abstract, summary of the invention, columns 10 and 12, and claims.	1-20
Y	US 6,030,635 A (GERTZMAN et al.) 29 February 2000 (29.02.2000), abstract, summary of the invention, examples, and claims.	1-20
Y	US 2001/0016646 A1 (REUGER et al.) 23 August 2001 (23.08.2001), abstract, summary of the invention, and claims.	1-20
Y	US 2001/0051834 A1 (FRONDOZA et al.) 13 December 2001 (13.12.2001), abstract, figure 7, summary of the invention, and claims.	1-20
Y	US 2002/0192263 A1 (MERBOTH et al.) 19 December 2002 (19.12.2002), abstract, summary of the invention, and claims.	1-20
Y	PERETTI et al. Cell-based tissue-engineered allogenic implant for cartilage repair. Tissue Engineering. 2000, Vol. 6, No. 5, pages 567-576, especially page 567-569.	1-20
Y	NIXON et al. New horizons in articular cartilage repair. AAEP Proceedings. 2001, Vol. 47, pages 217-226, especially page 217.	1-20

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"X"

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"&"

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Date of the actual completion of the international search

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PERETTI et al. A biomechanical analysis of an engineered cell-scaffold implant for cartilage repair. <i>Annals of Plastic Surgery</i> . 2001, Vol. 46, No 5, pages 533-537, especially page 533 and 536.	1-20
Y	GERTZMAN & SUNWOO. A pilot study evaluating sodium hyaluronate as a carrier for freeze-dried demineralized bone powder. <i>Cell and Tissue Banking</i> . 2001, Vol. 2, pages 87-94, especially abstract and materials & methods.	1-20
Y	GIROTTO et al. Tissue-specific gene expression in chondrocytes grown on three-dimensional hyaluronic acid scaffolds. <i>Biomaterials</i> . 2003, Vol. 24, pages 3265-3275, especially abstract and materials & methods.	1-20

INTERNATIONAL SEARCH REPORT

International application No.

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Continuation of B. FIELDS SEARCHED Item 3:
EAST: USPAT, PG-PUB, USOCR, JPO, EPO, DERWENT

STN: CAPLUS, BIOSIS, MEDLINE

SEARCH STRATEGIES:

hyaline or fibrous, cartilag?,
Implant or carrier or support or matrix or polymer?
hyaluron? or gelatin? or collagen? or dextran or chitosan or pbs or algin?
allog? or allogene? or allograft and cell or chondrocyt?
mill? or grind? or ground? or powder and lyophil? or freez?